

**CMS Simulation**

PYTHIA8 CP5 (pp 5.02 TeV)

Ratio

— b jets / inclusive jets  
- - b jets / light quark jets

Particle level

anti- $k_T$ ,  $R=0.4$  jets $100 < p_T^{\text{jet}} < 120 \text{ GeV}, |\eta^{\text{jet}}| < 2$ 

Soft drop (charged particles)

 $z_{\text{cut}} = 0.1, \beta = 0, k_T > 1 \text{ GeV}$ 